

PEG-BSA Coated 96-Well Plates for Detection of Anti-PEG Antibodies

Product Description

96 well plates (12 x 8-well strips) coated with mono PEGylated bovine serum albumin (LDI Cat. No. PBSA-01, mono mPEG (20 kDa) BSA). For use in the detection of anti-PEG antibodies.

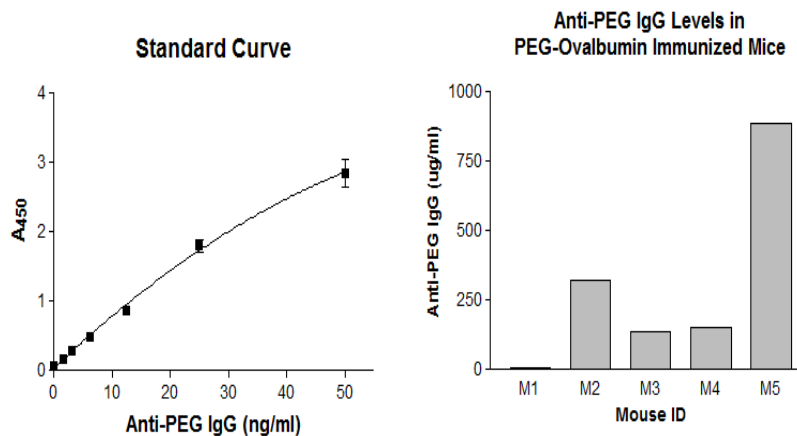
Use of PEG-BSA Coated Plates for Detection of Mouse Anti-PEG IgG

Methods

1. Standards: Anti-PEG monoclonal antibody (LDI Cat. No. 1D9-6) was diluted in PEG-HRP diluent (LDI Cat. No. PEGD1) at concentrations ranging from 0 – 50 ng/ml.
2. Samples: Serum from five individual mice (M1 – M5) that had been immunized with PEG-ovalbumin was diluted in PEG-HRP diluent at dilutions ranging from 100 – 70,000.
3. 100 μ l aliquots of standards and samples were incubated in duplicate wells of the PEG-BSA coated plate for 1 hour.
4. The wells were washed with 5 x 400 μ l of PEG-HRP wash buffer (LDI Cat. No. PEGW1).
5. 100 μ l of anti-mouse IgG-HRP (~100 ng/ml) diluted in PEG-HRP diluent was added to each well and incubated for 30 min
6. The wells were washed as described above and 100 μ l of TMB substrate was added.
7. The reaction was stopped after 20 min by addition of 100 μ l of 1 M HCl and absorbance was measured at 450 nm.
8. Anti-PEG concentrations were derived from a standard curve.

Results

1. Use of PEG-BSA coated plates allows detection of anti-PEG antibodies. Anti-PEG monoclonal antibody could be detected at concentrations from 1 – 50 ng/ml (standard curve below).
2. Immunization of mice with PEG-ovalbumin induced anti-PEG IgG levels ranging from 4 – 890 μ g/ml. Anti-PEG IgG levels were undetectable in non-immunized mice (not shown).



Comments

It is important that all reagents used for detection of PEG antibodies be free of extraneous PEG containing compounds including detergents such as Tween-20. Our PEG-BSA plates are blocked and stabilized with a proprietary PEG-free buffer. We recommend that our PEG-HRP diluent and PEG-HRP wash buffer be used with PBSA20PL plates. It has been our experience that many commercially available ELISA reagents contain PEG compounds that interfere with PEG assays.